

FIG.1

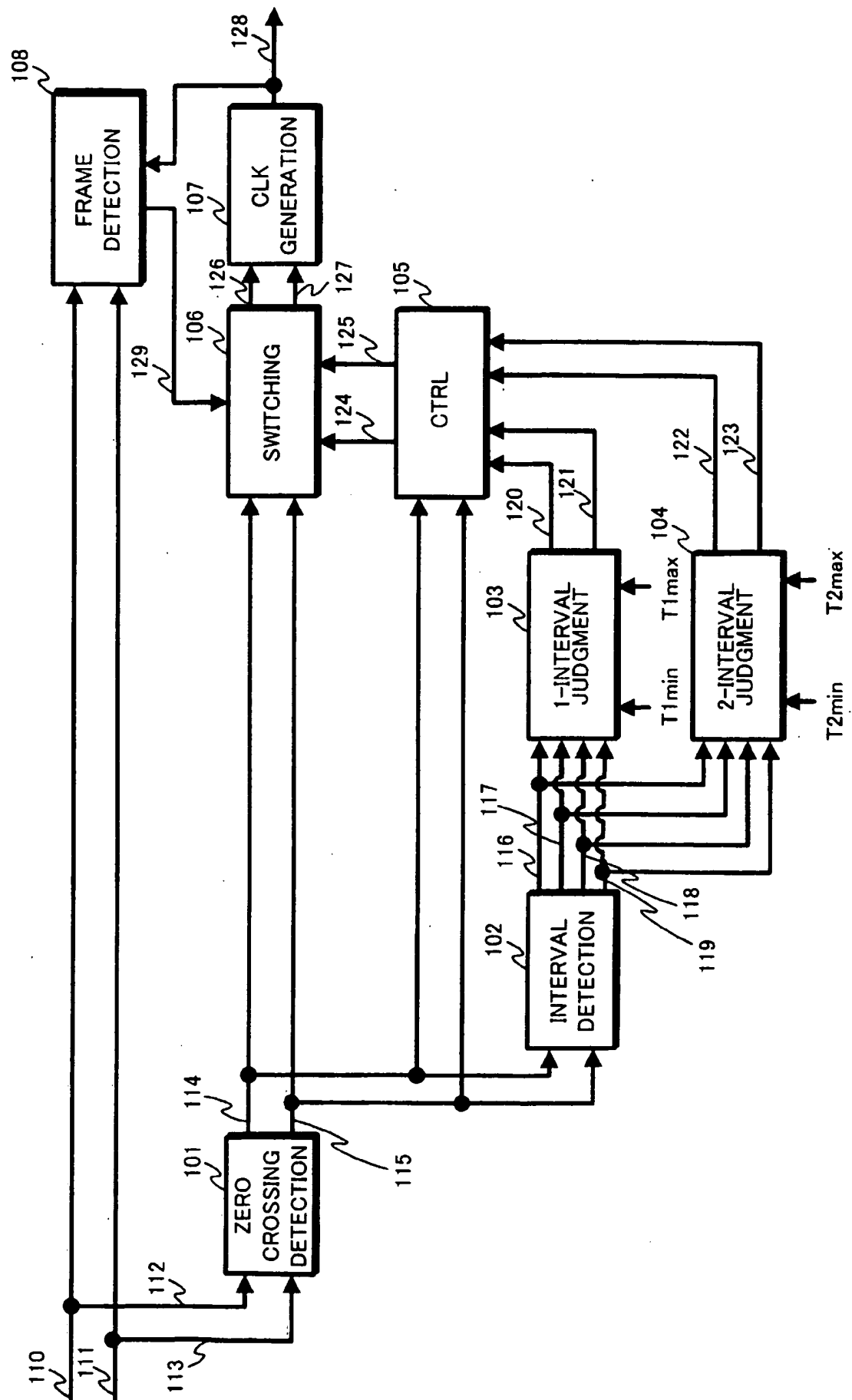


FIG. 2

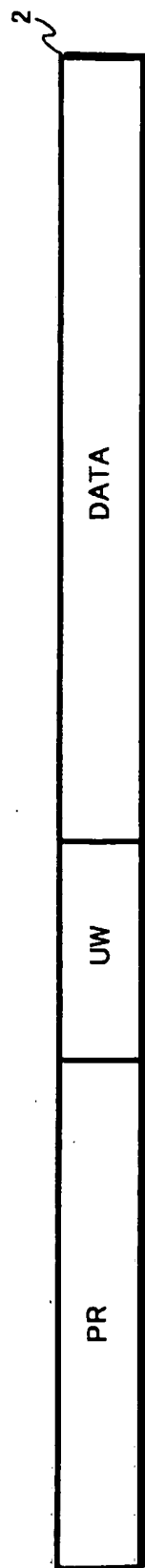


FIG. 3

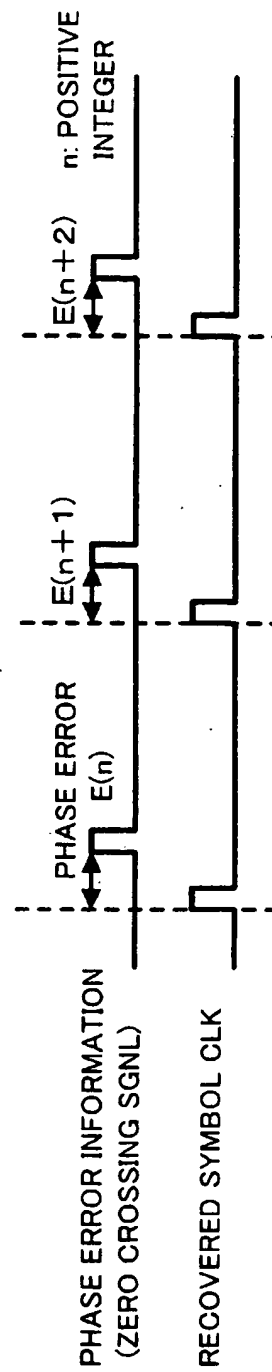


FIG. 4

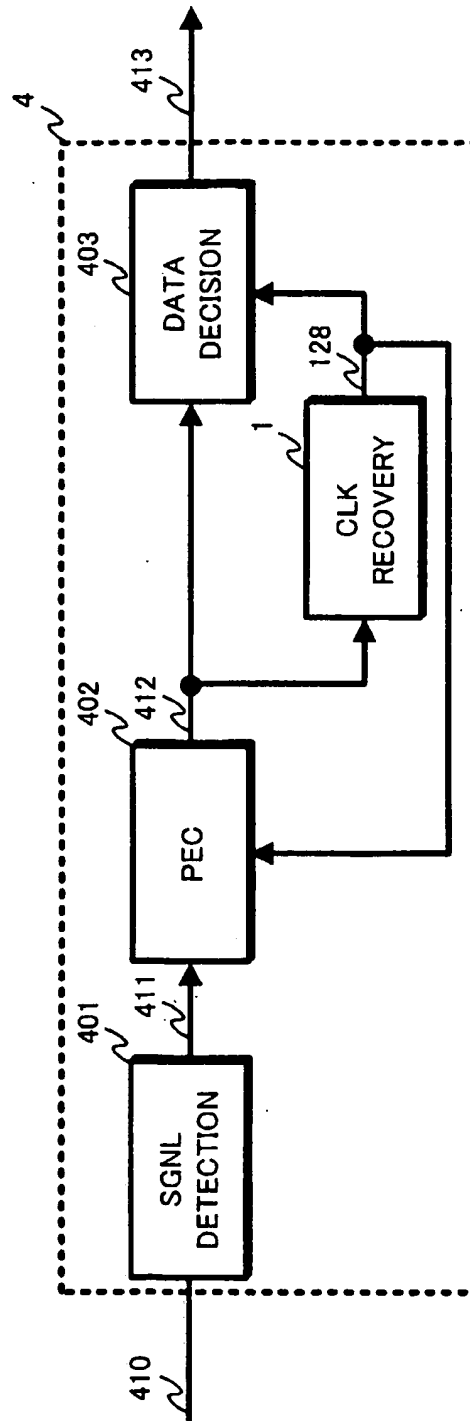


FIG. 5

BIT $X_n X_{n+1}$	PHASE TRANSITION
1 1	$-3\pi/4$
0 1	$3\pi/4$
0 0	$\pi/4$
1 0	$-\pi/4$

FIG. 6

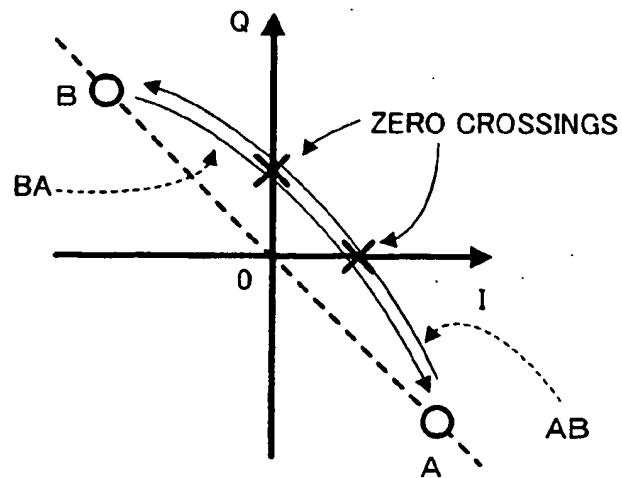


FIG. 7

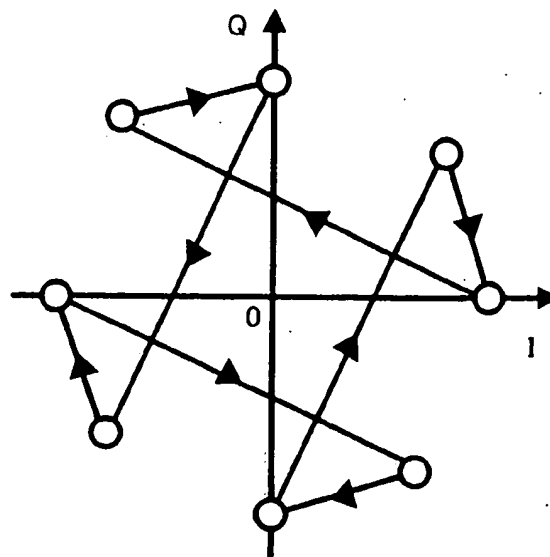


FIG. 8

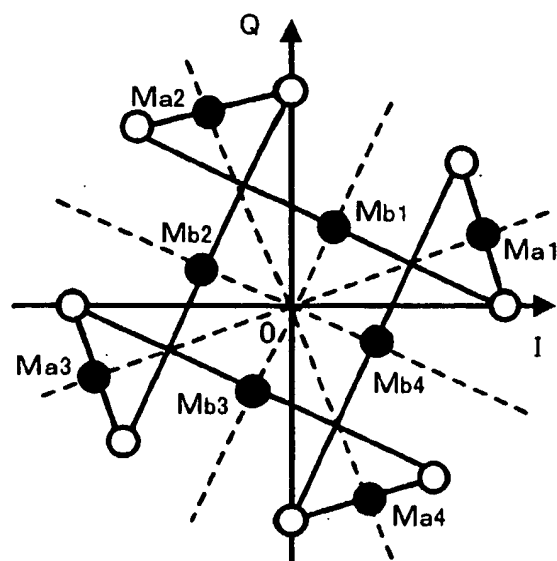


FIG. 9

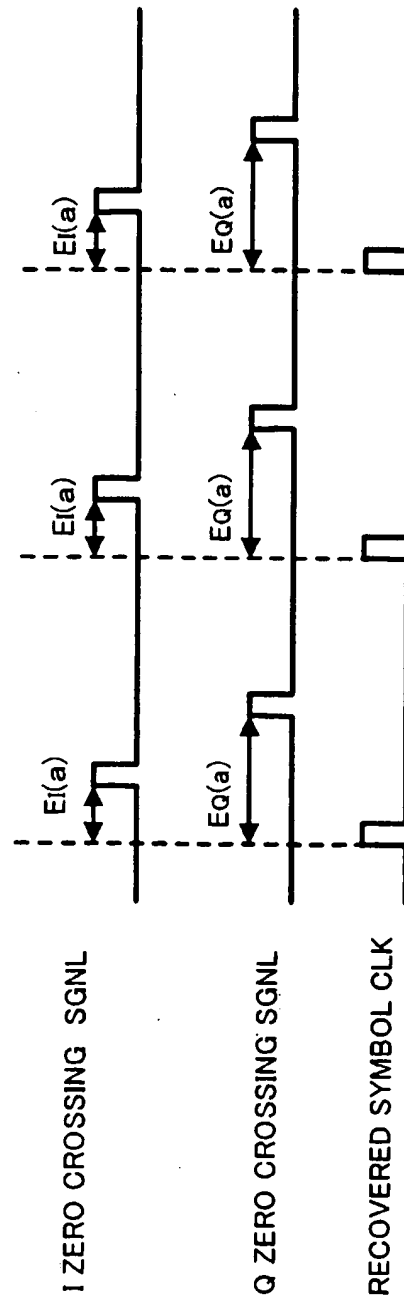


FIG. 10

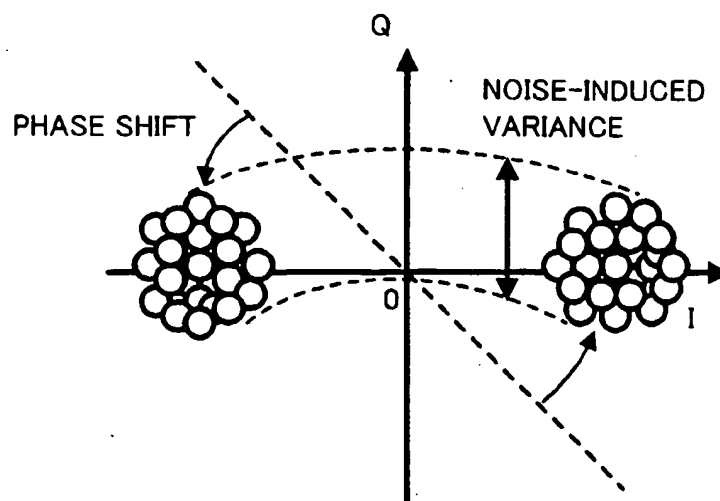


FIG. 11

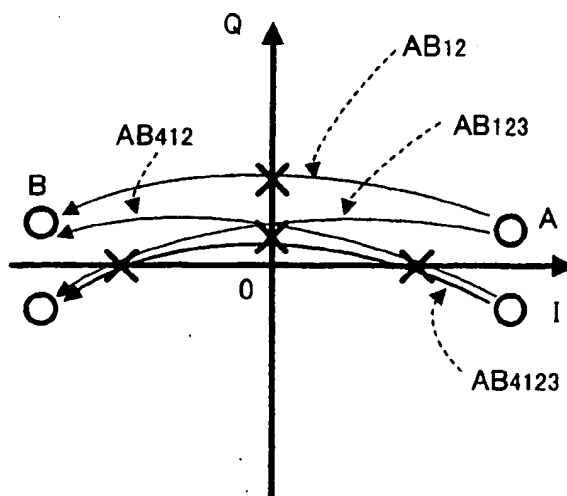




FIG.12

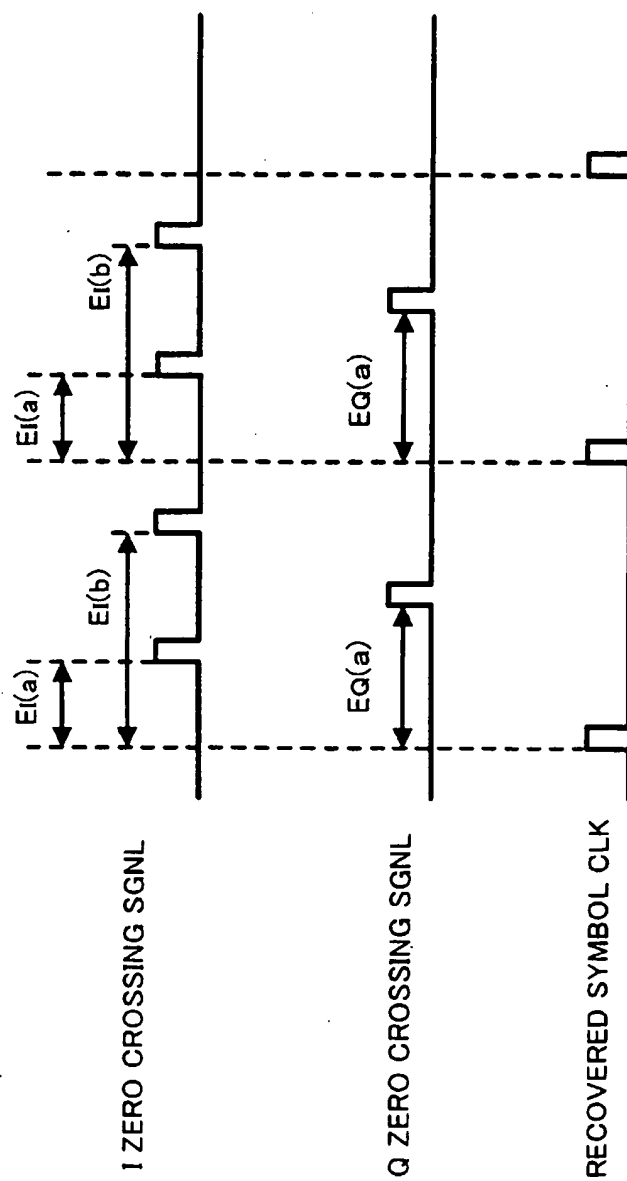


FIG.13

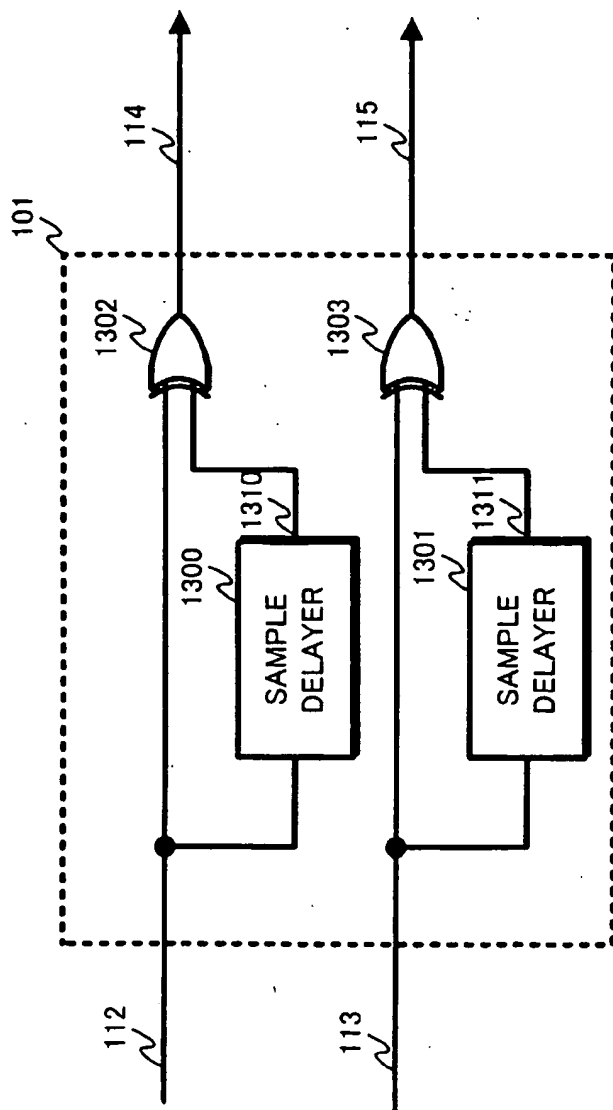


FIG.14

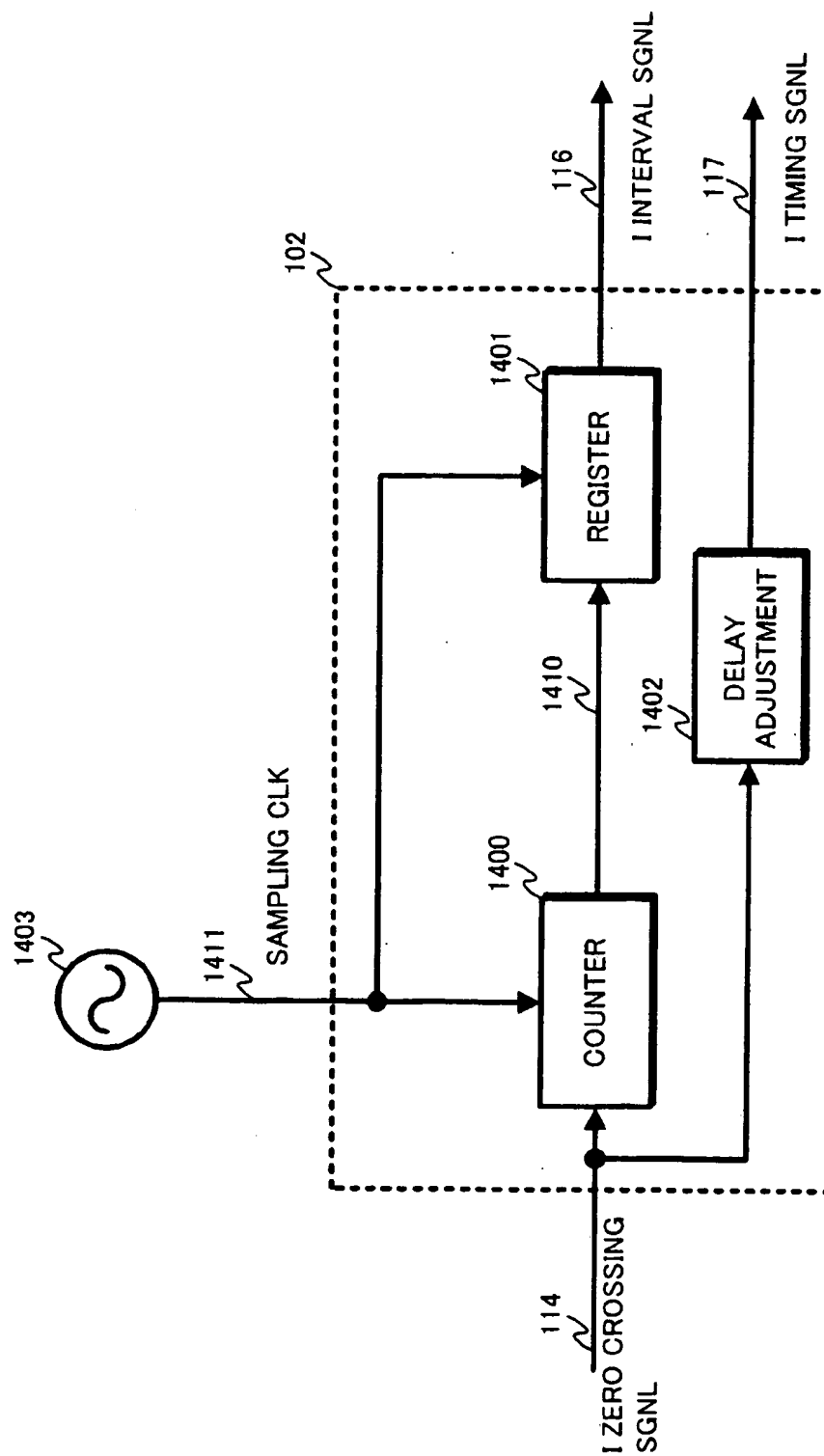


FIG.15

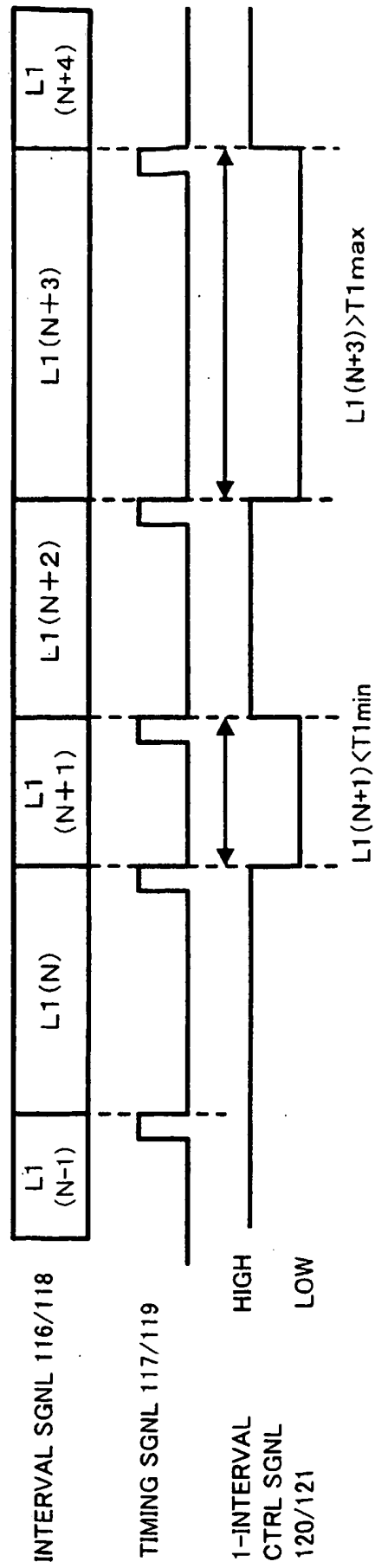


FIG.16

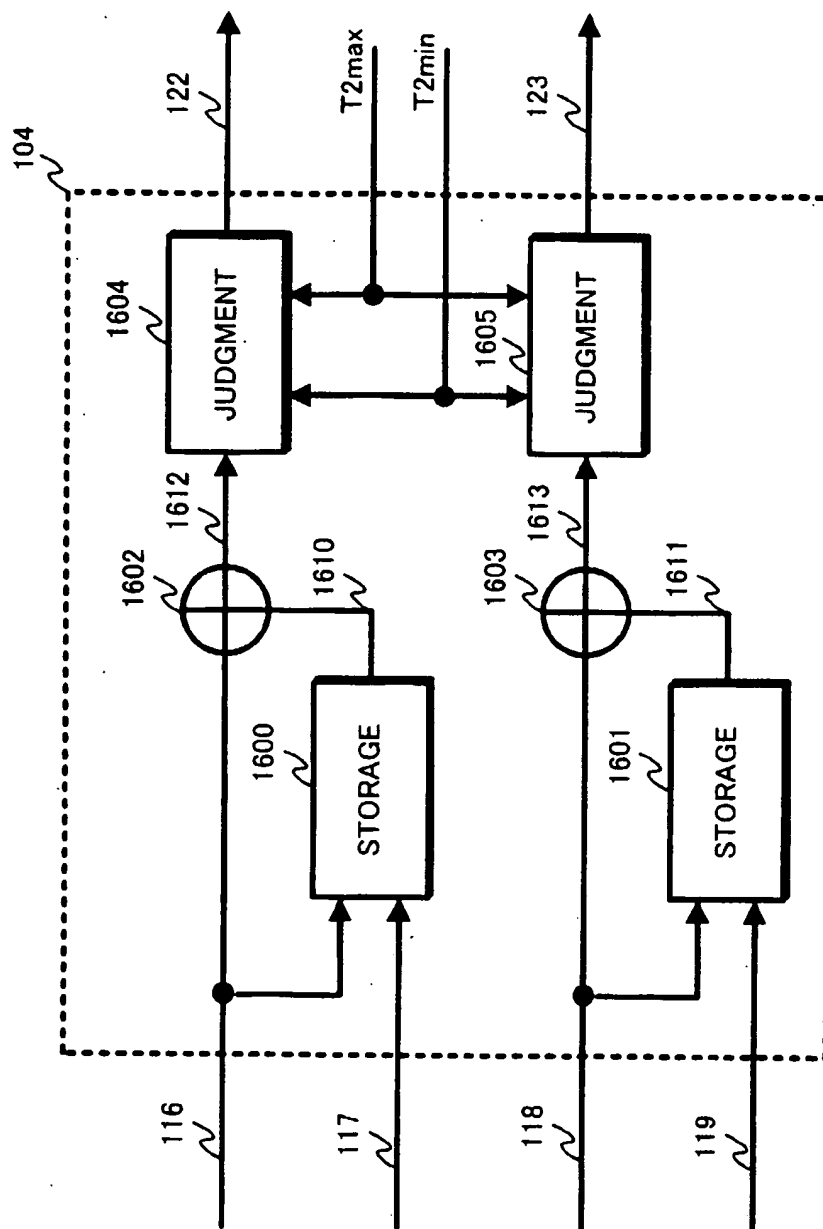


FIG.17

IN-PHASE COMPONENT

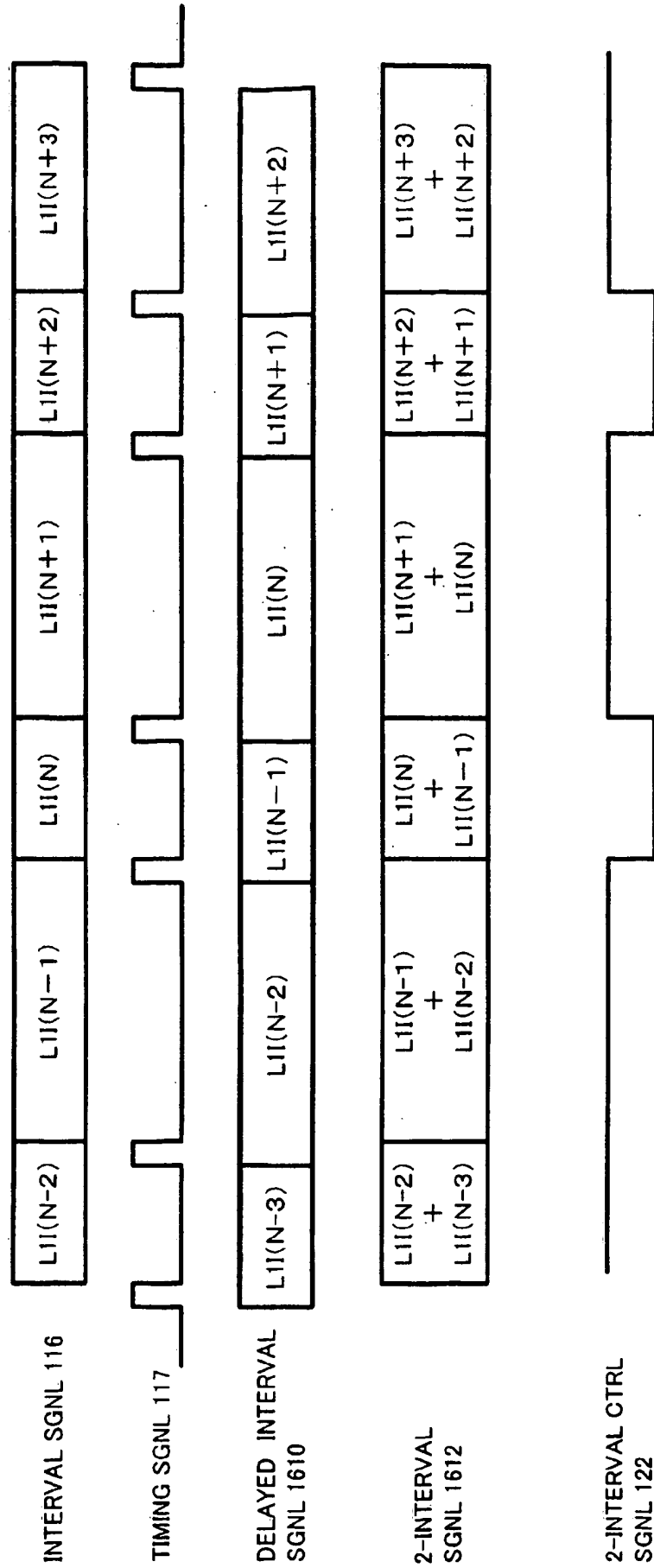


FIG.18

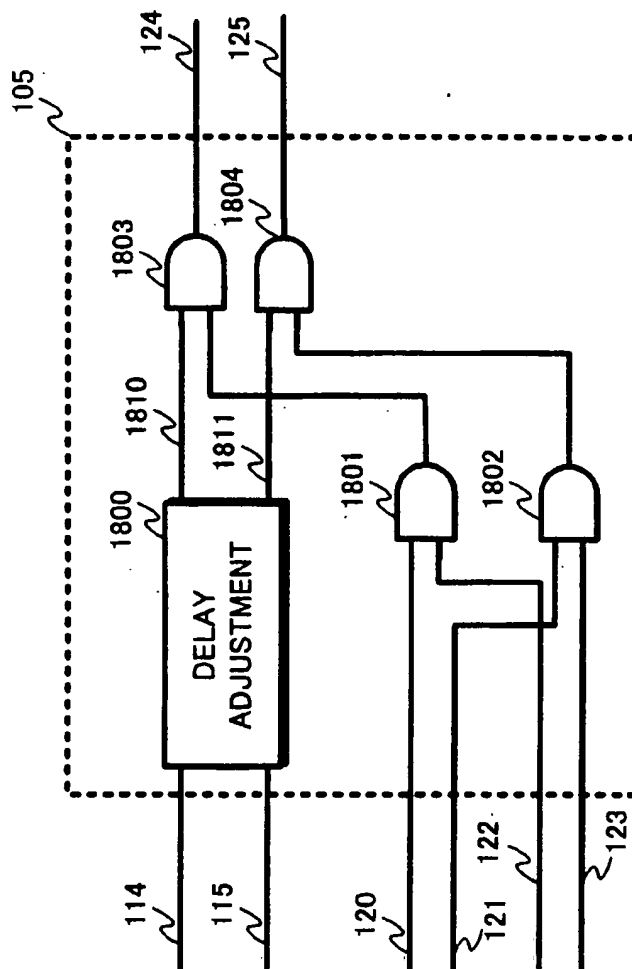


FIG.19

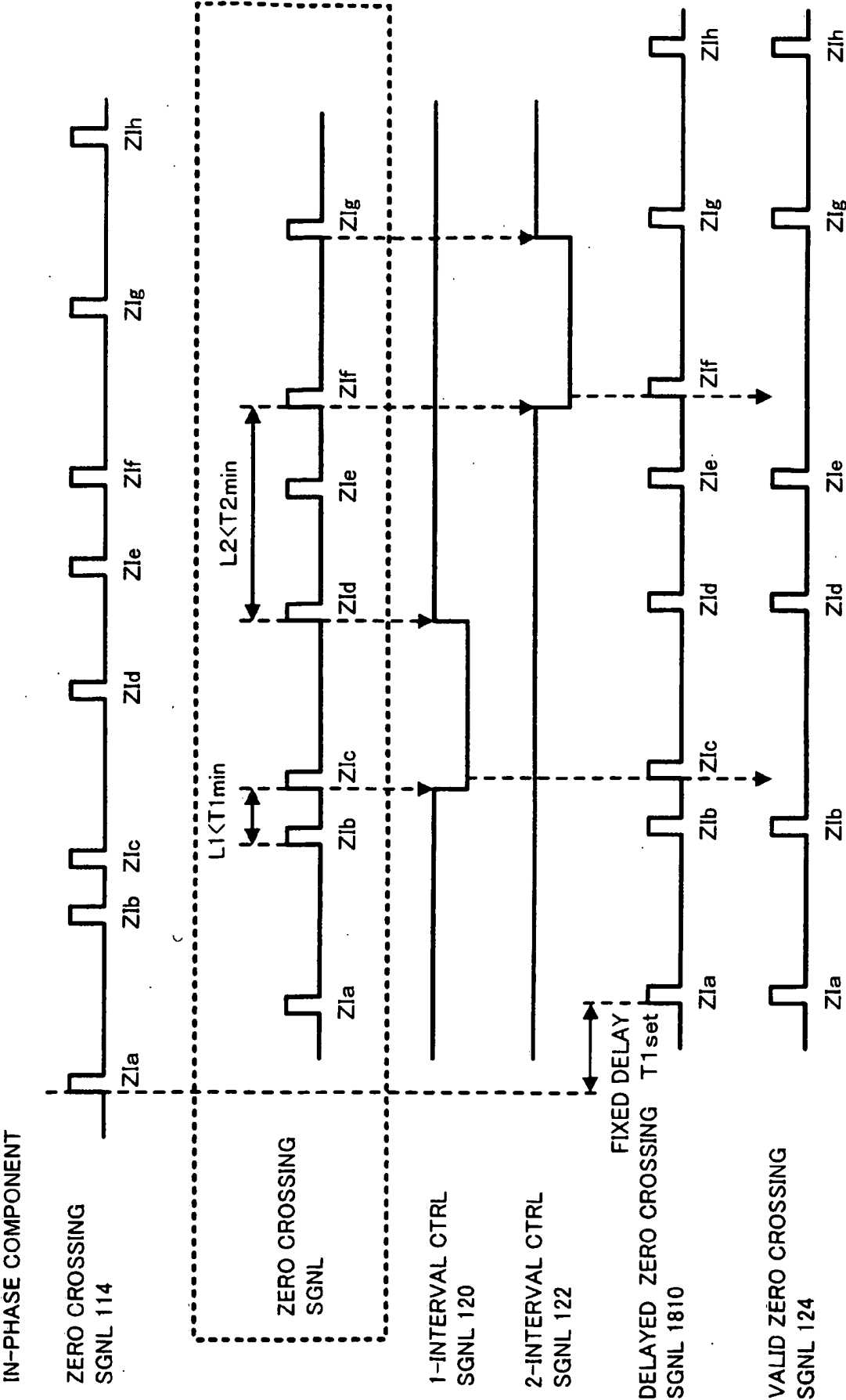




FIG.20A

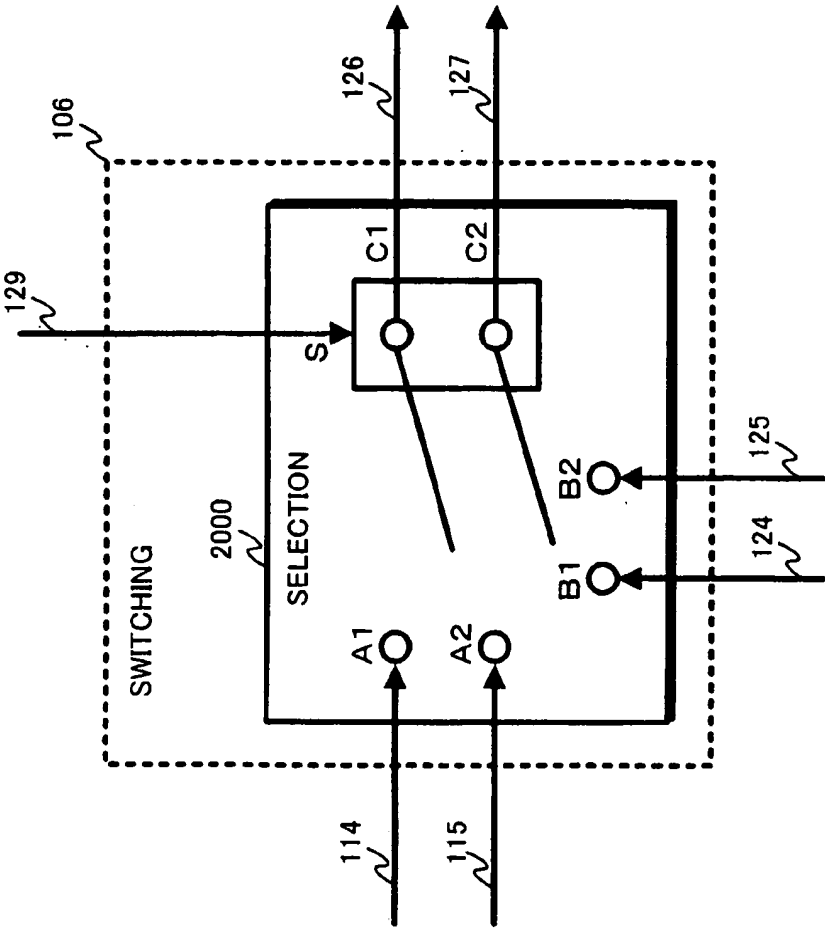


FIG.20B

TRUTH TABLE	
CONTROL SIGNAL S	OUTPUT (C1, C2)
0	(B1, B2)
1	(A1, A2)

FIG.21

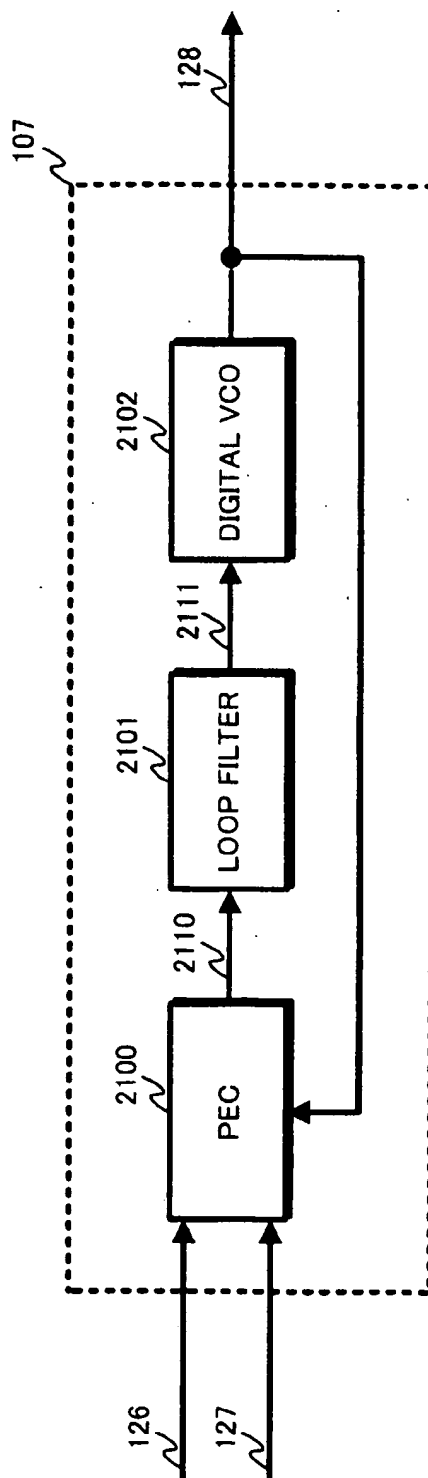


FIG.22

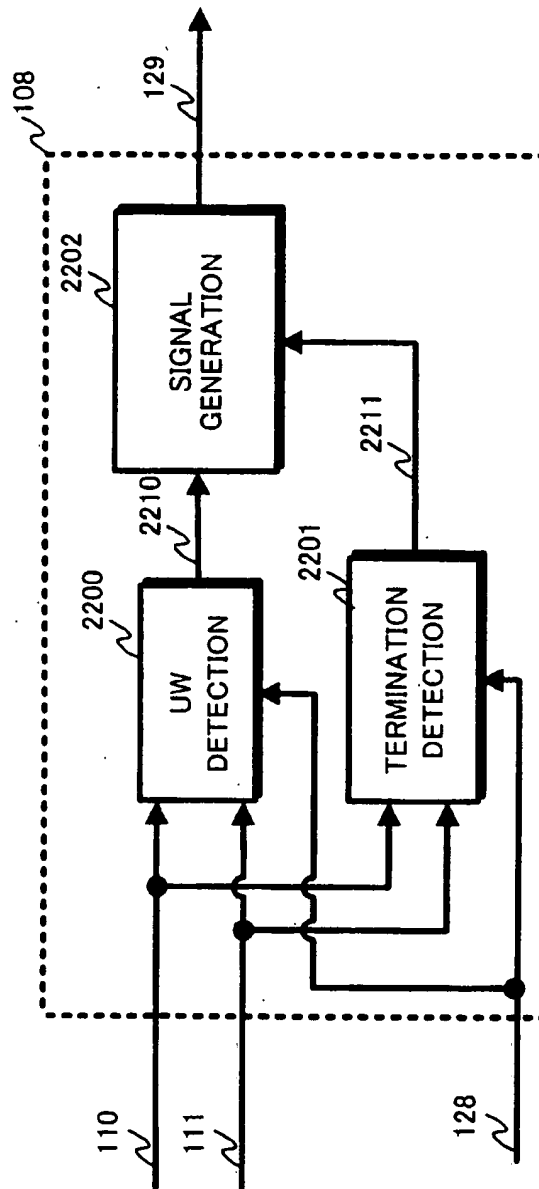


FIG.23

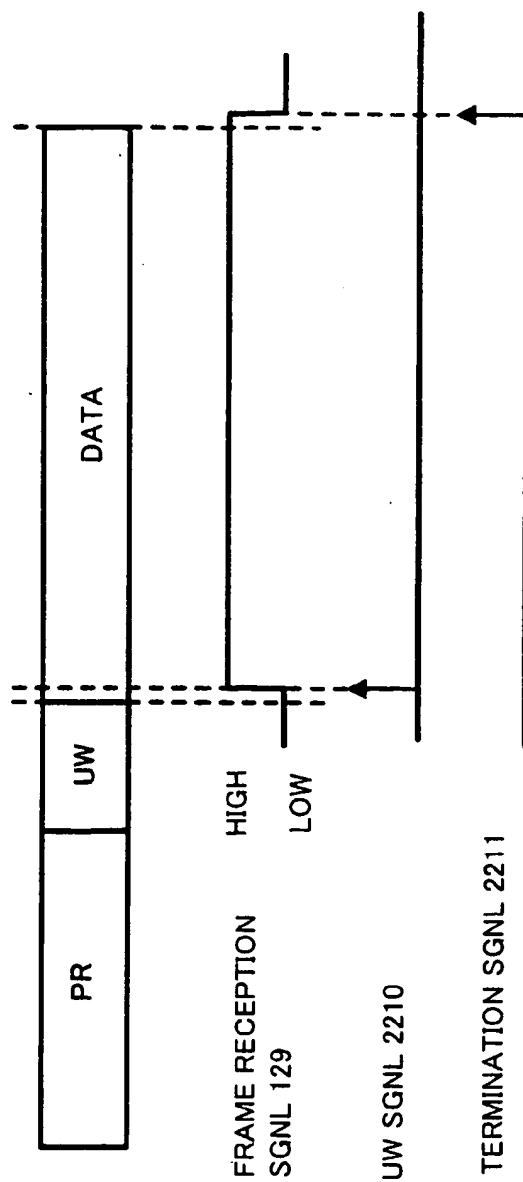


FIG.24

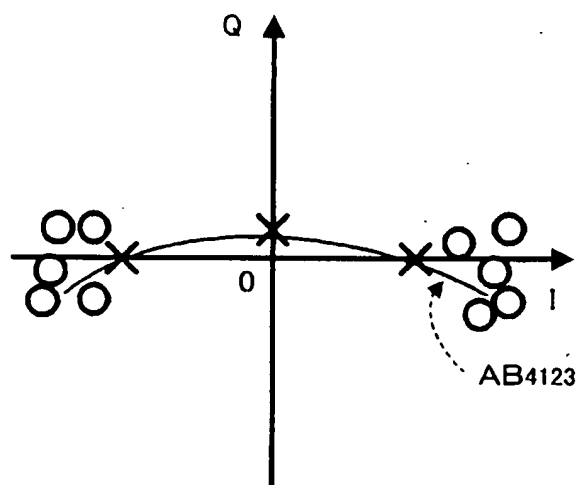


FIG.25

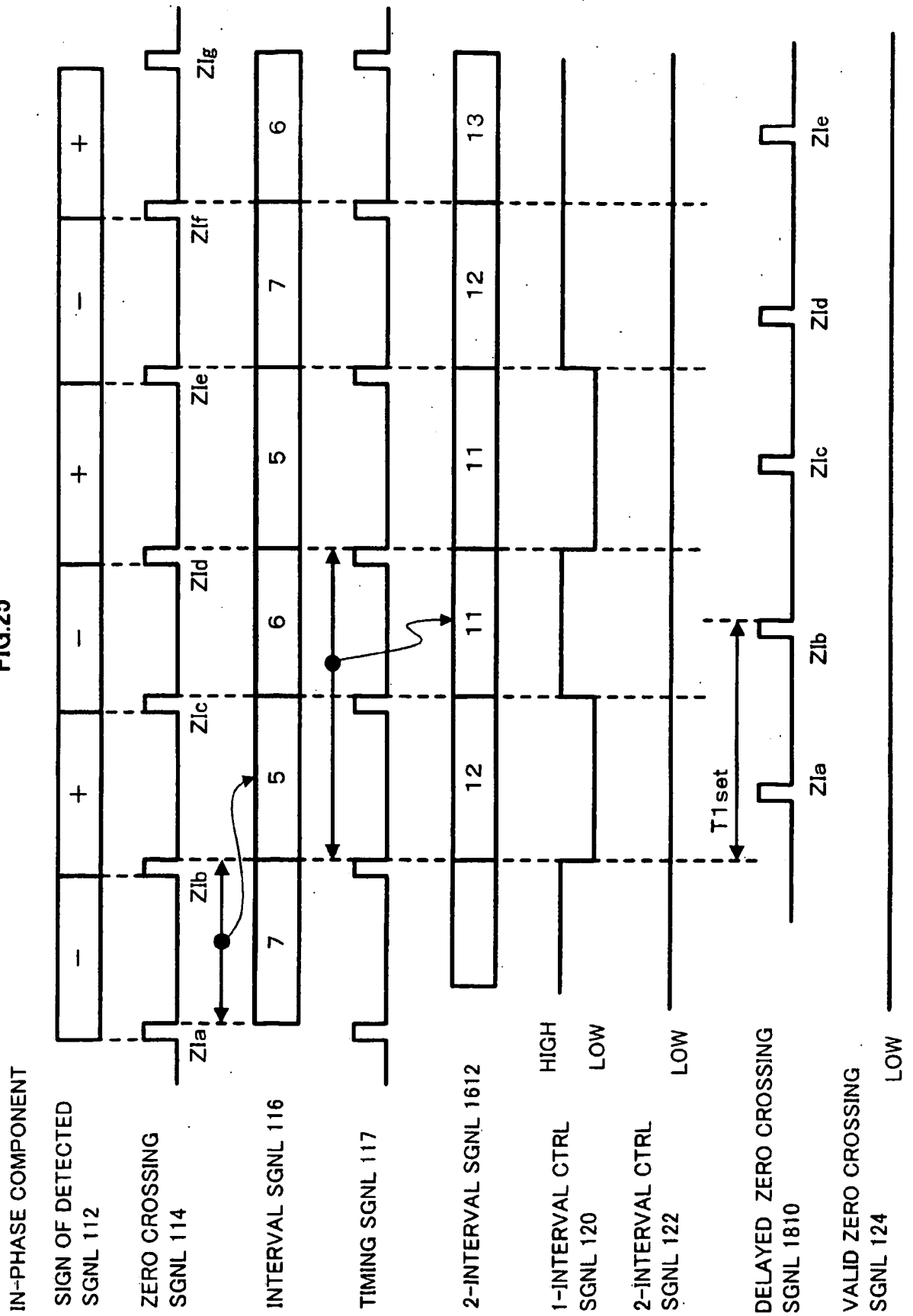


FIG.26

QUADRATURE COMPONENT

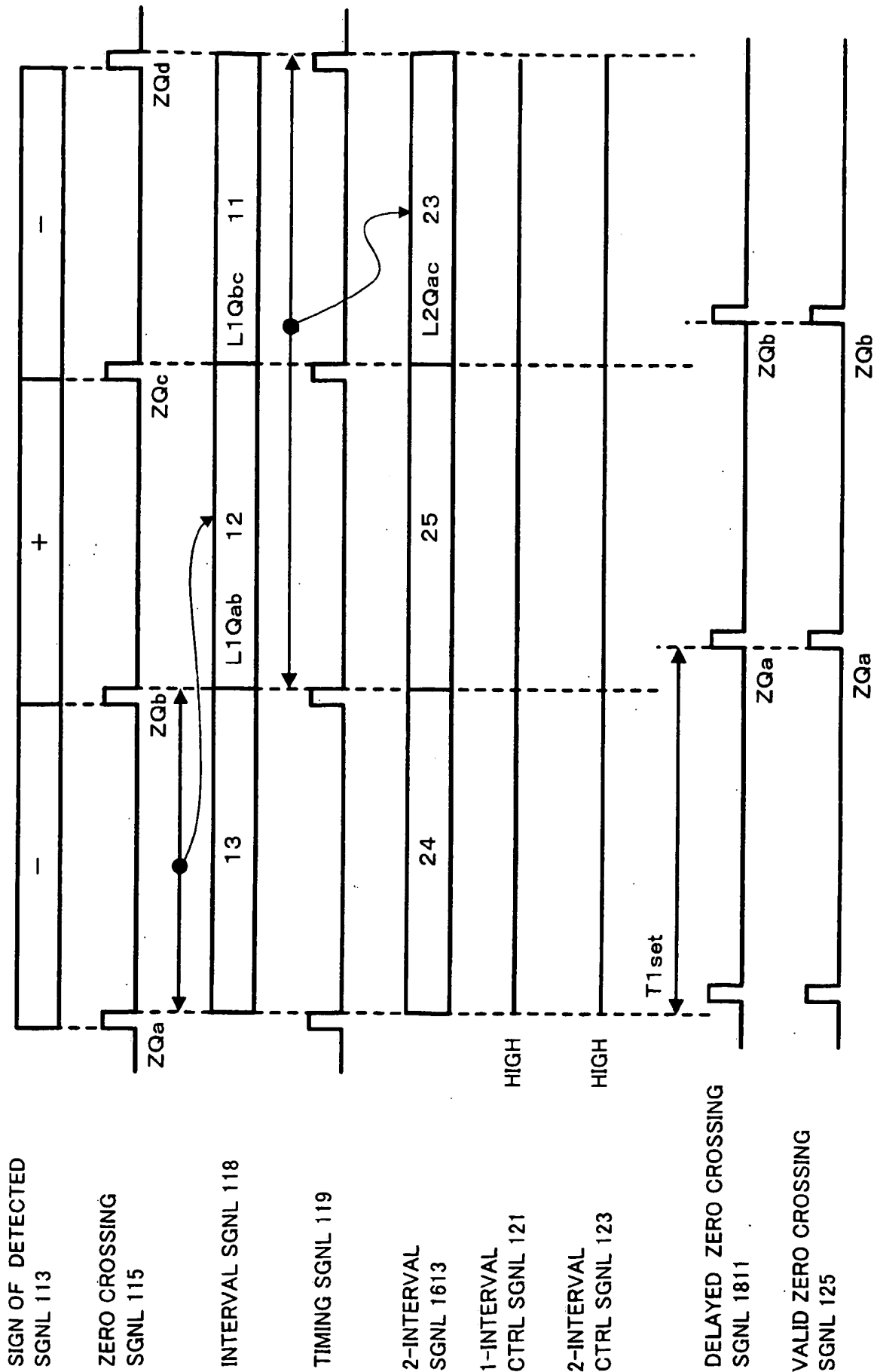


FIG.27

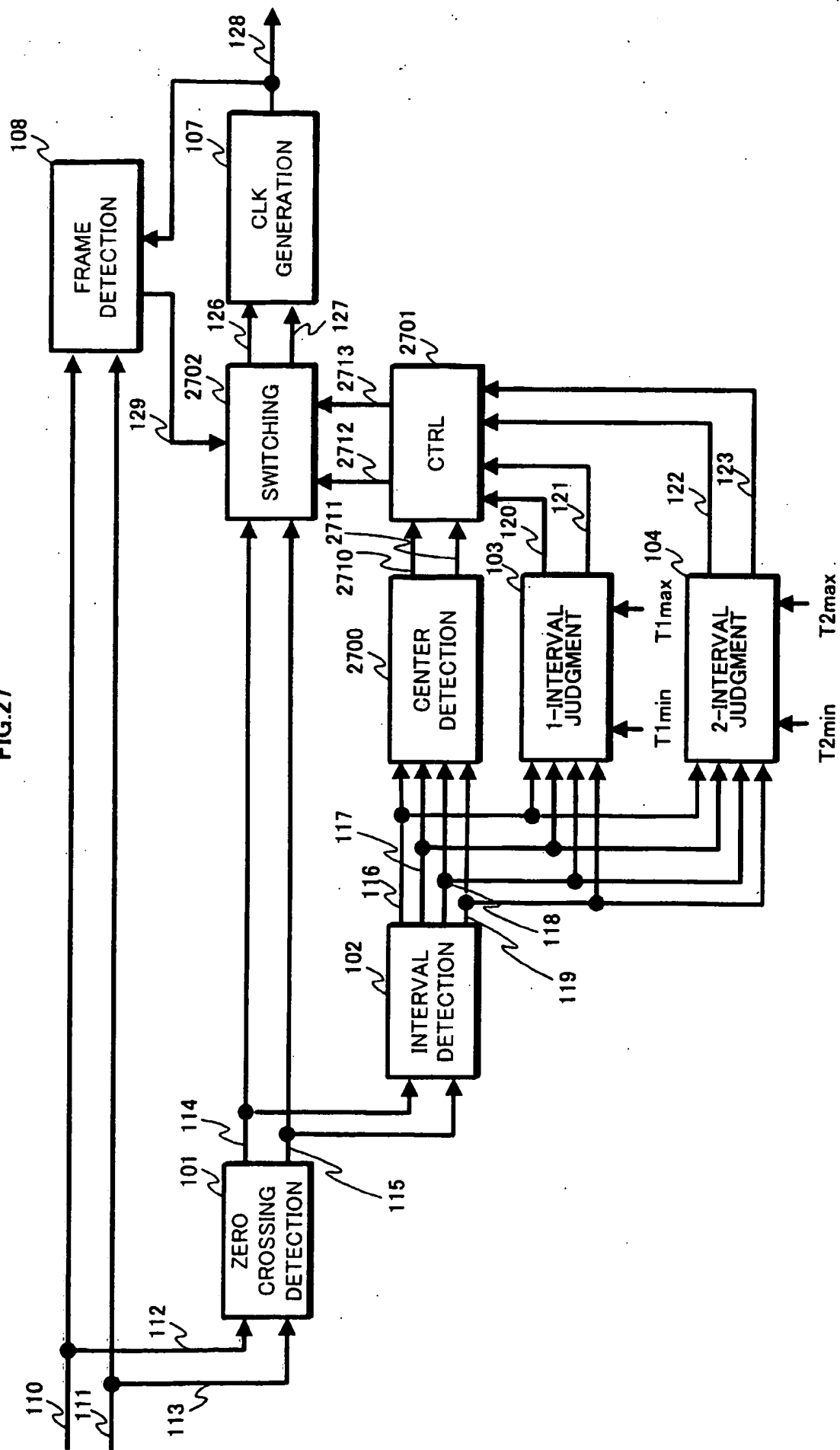




FIG.28

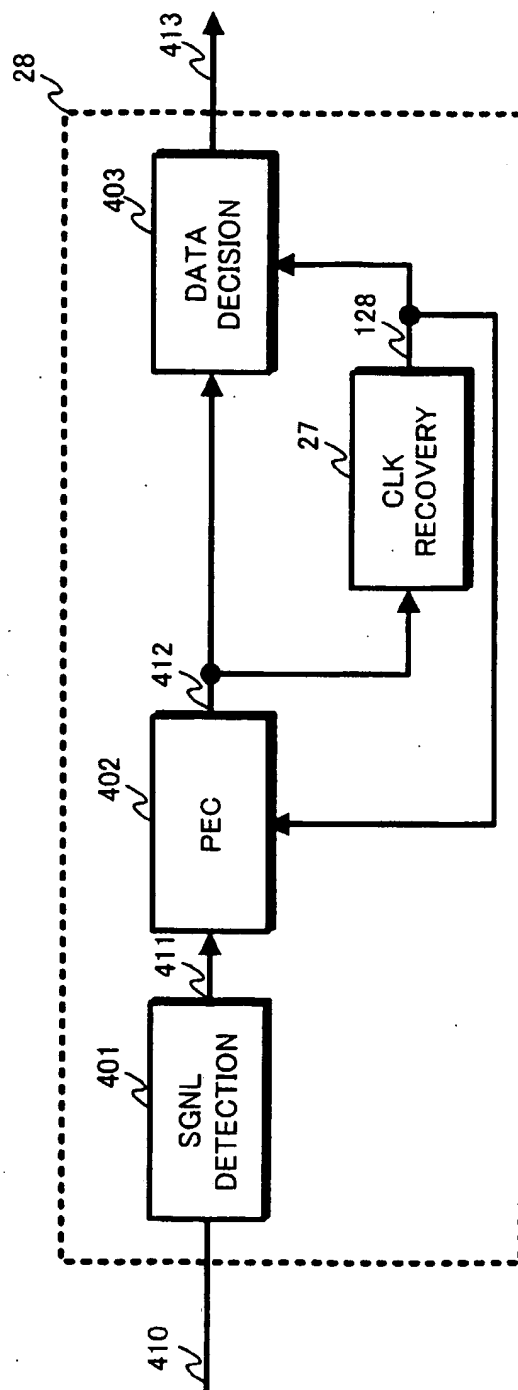


FIG.29

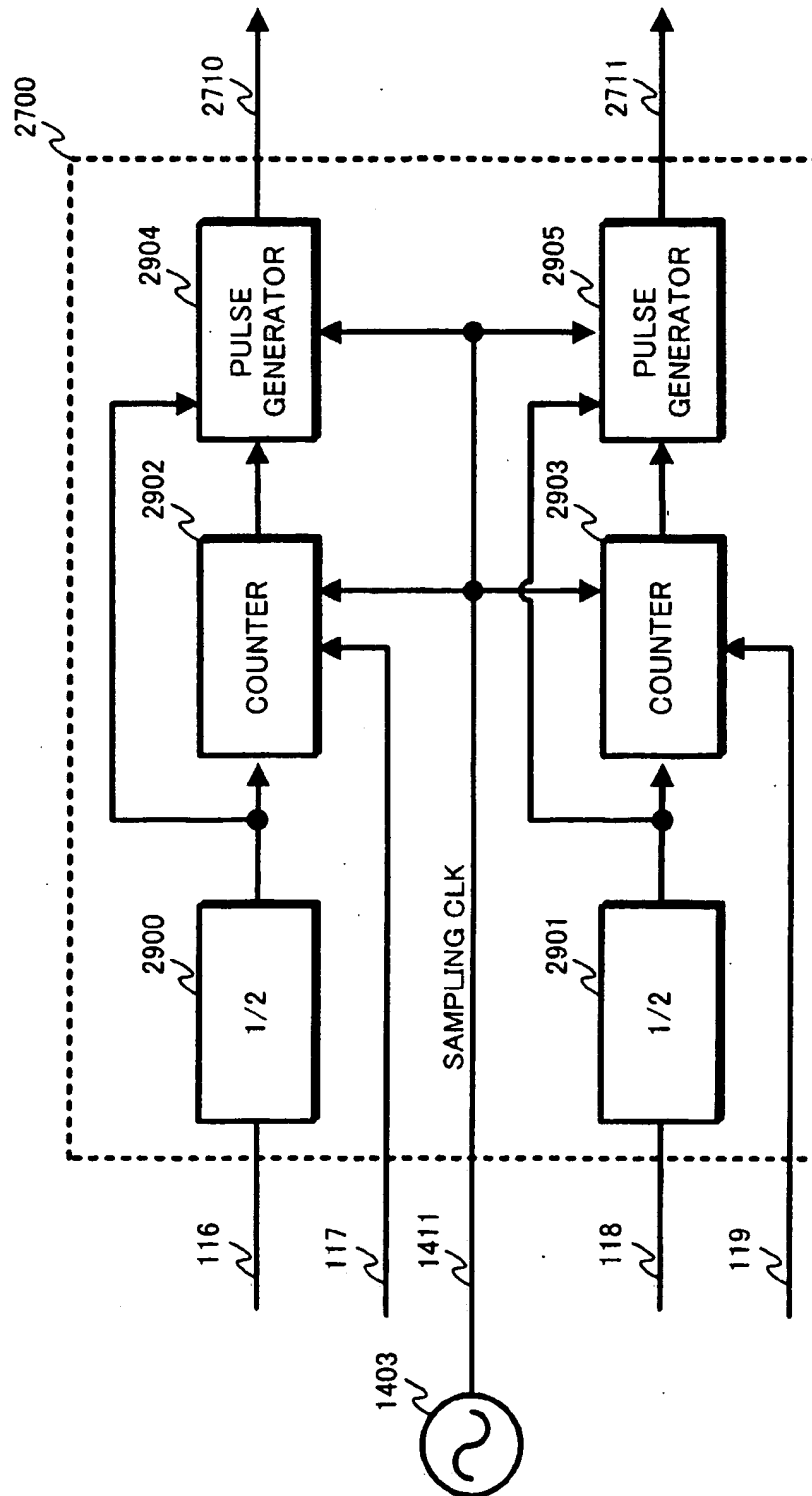


FIG.30

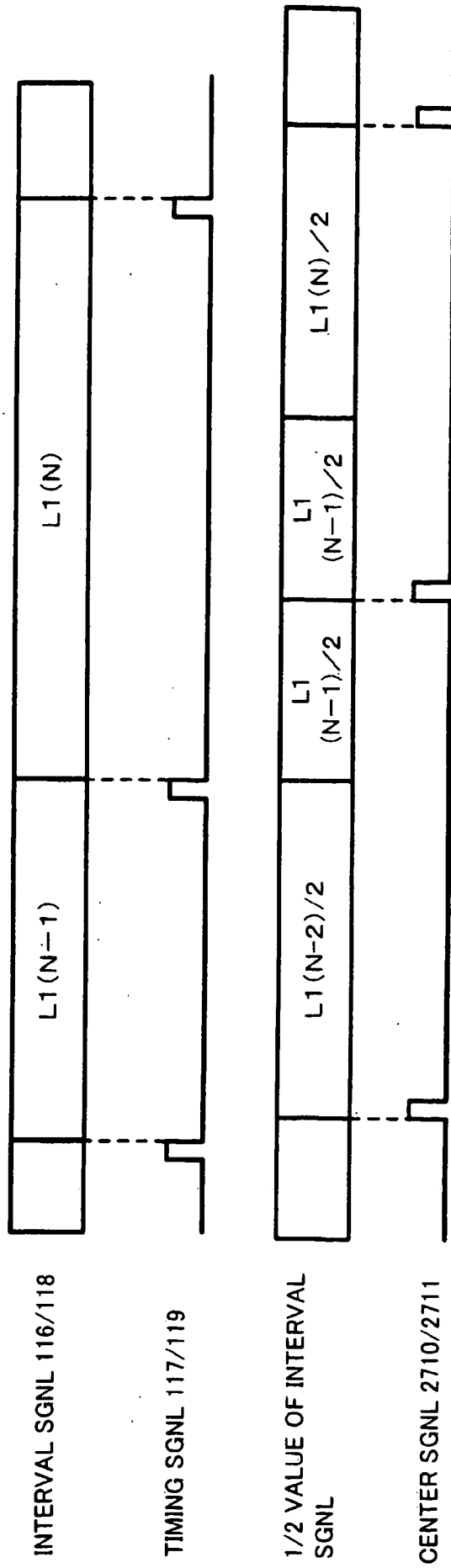


FIG.31

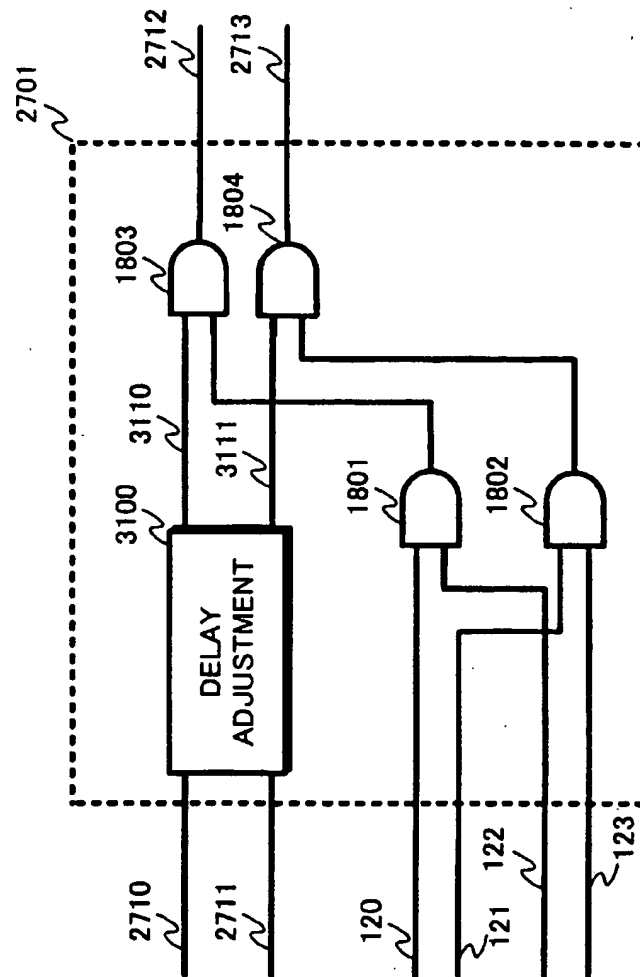


FIG.32

IN-PHASE COMPONENT

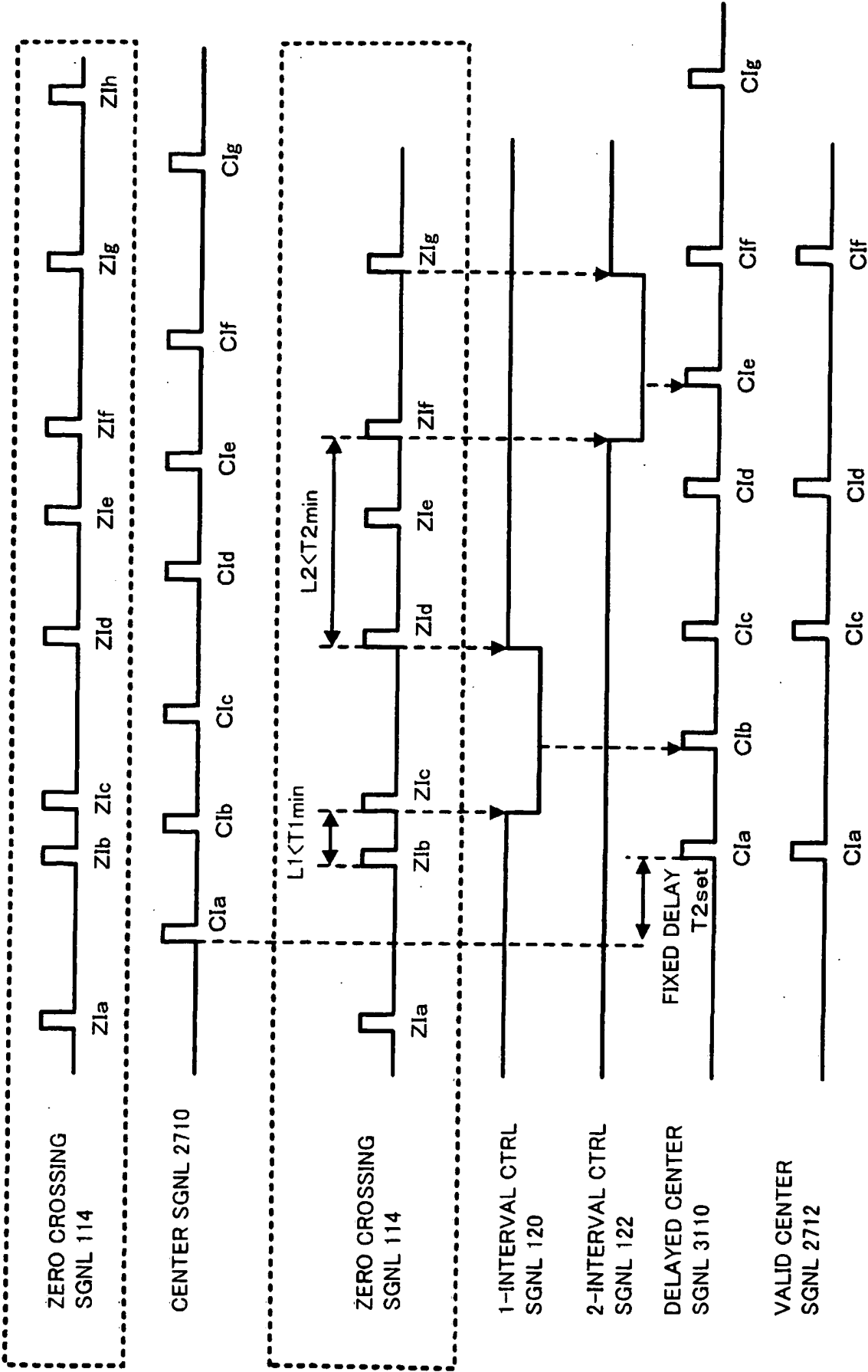


FIG.33

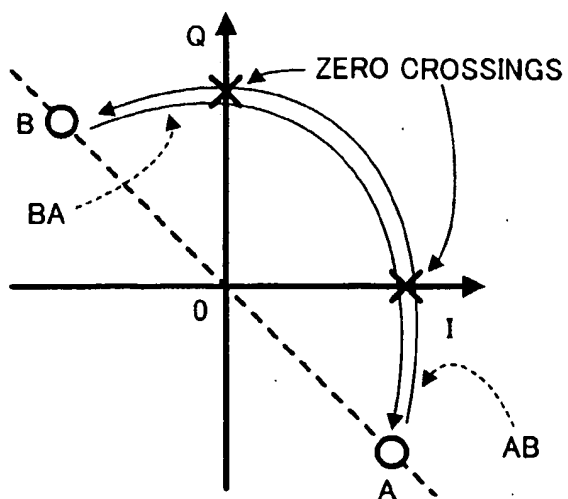


FIG.34

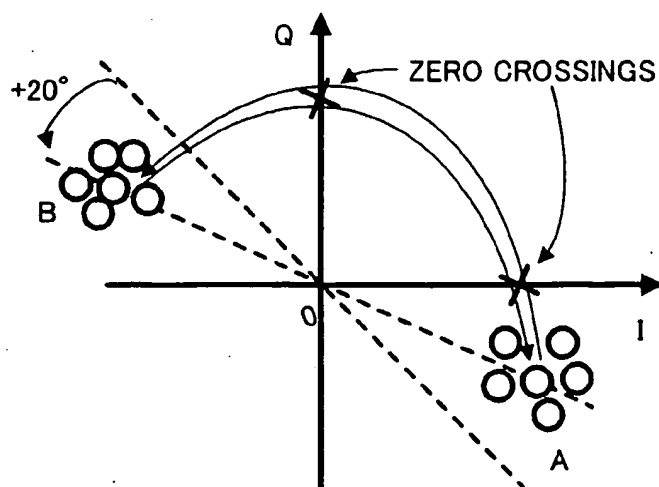


FIG.35

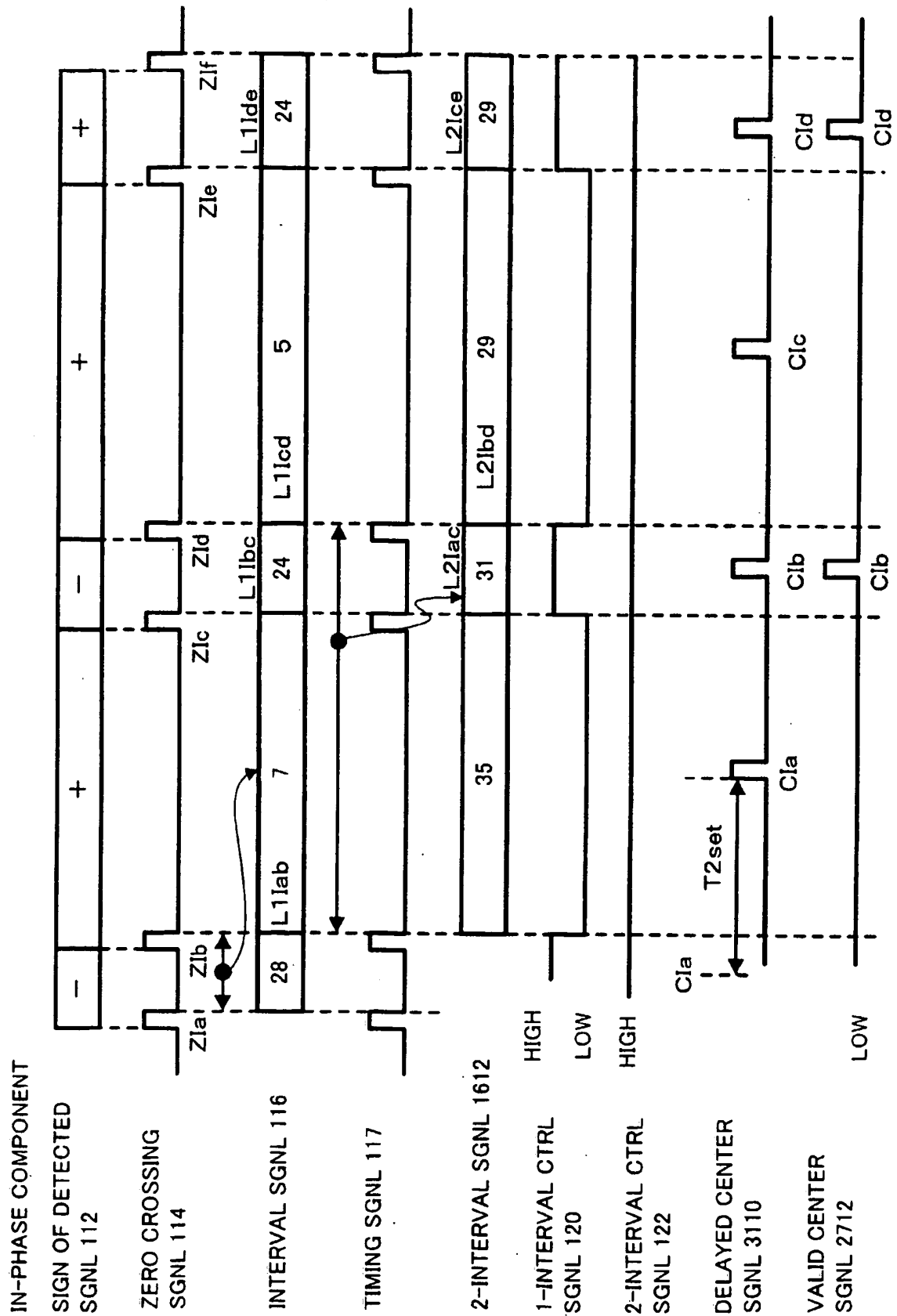


FIG.36

QUADRATURE COMPONENT

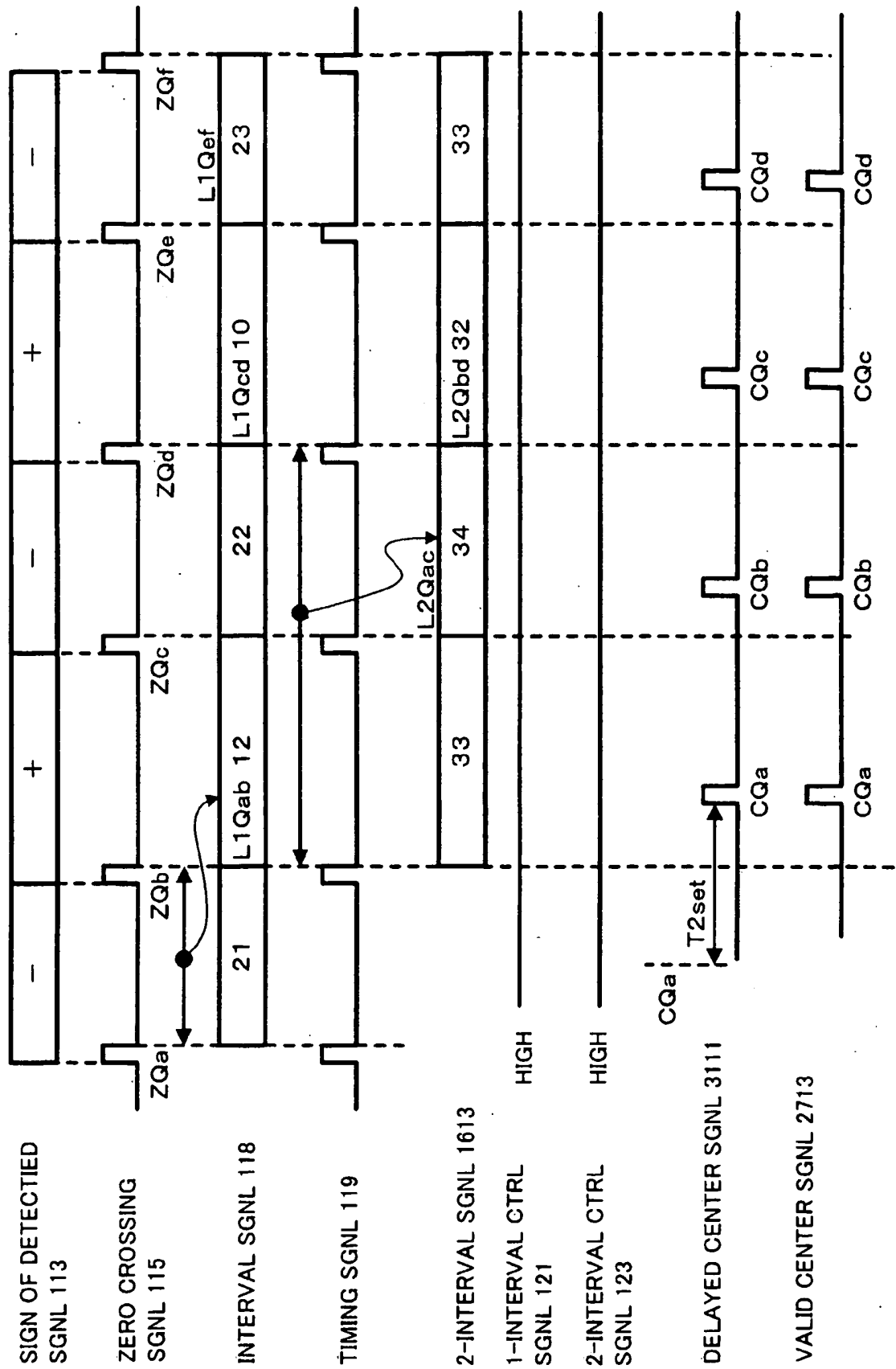




FIG.37

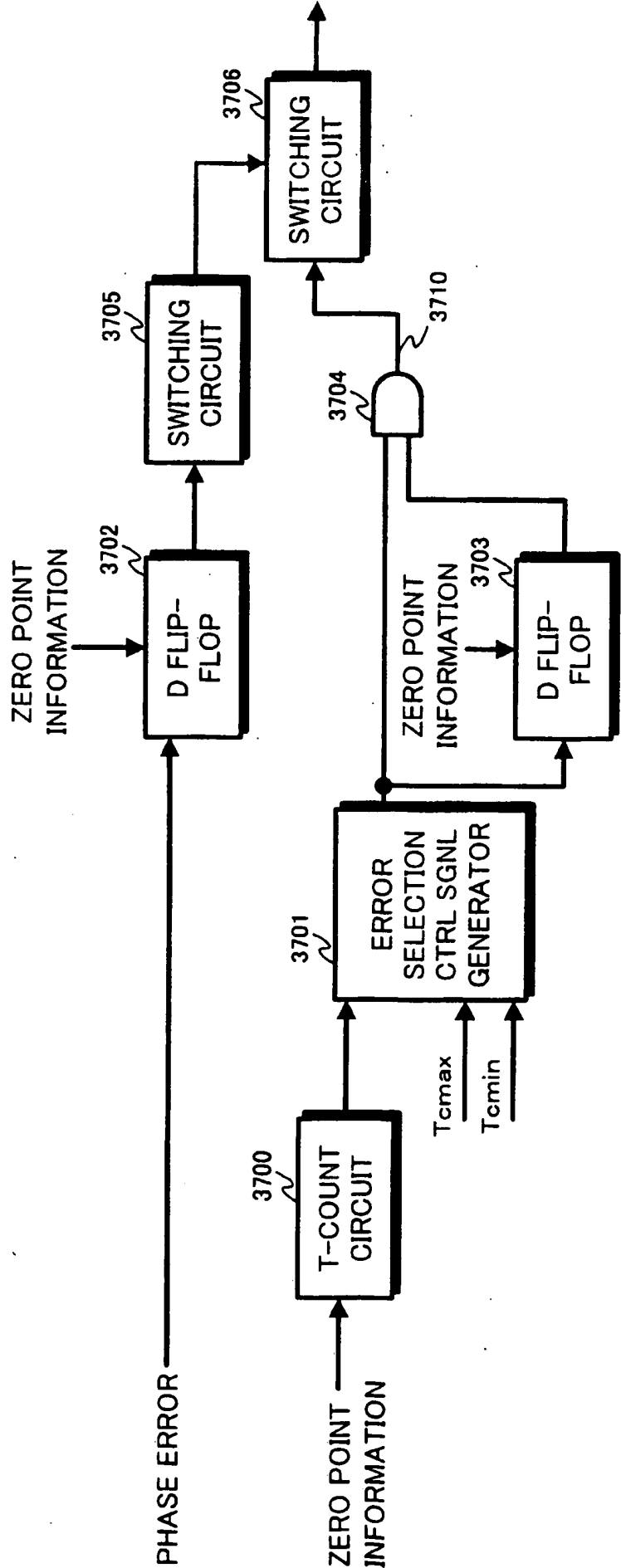


FIG.39

	BIT $X_n \ X_{n+1} \ X_{n+2}$	PHASE TRANSITION
S1	0 0 0	$\pi/8$
S2	0 0 1	$3\pi/8$
S3	0 1 1	$5\pi/8$
S4	0 1 0	$7\pi/8$
S5	1 1 0	$-7\pi/8$
S6	1 1 1	$-5\pi/8$
S7	1 0 1	$-3\pi/8$
S8	1 0 0	$-\pi/8$

FIG.38

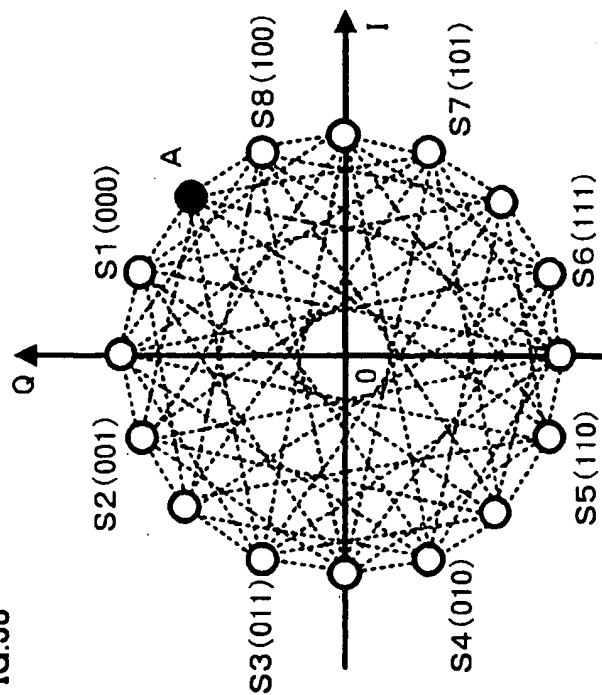
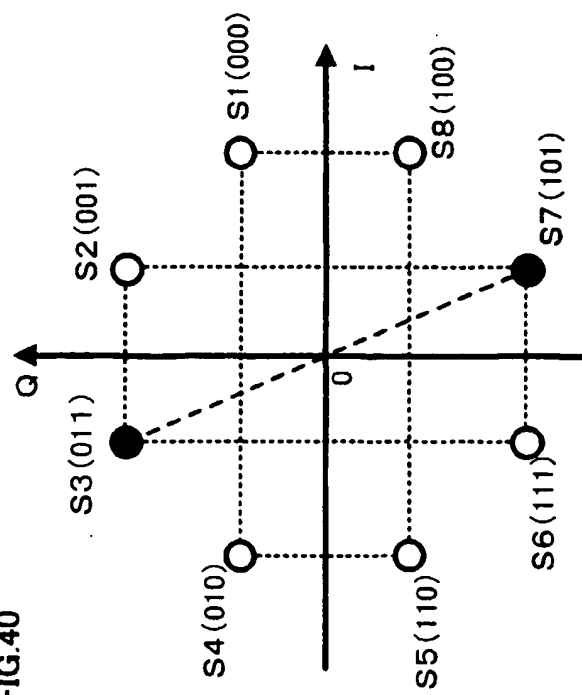


FIG.40



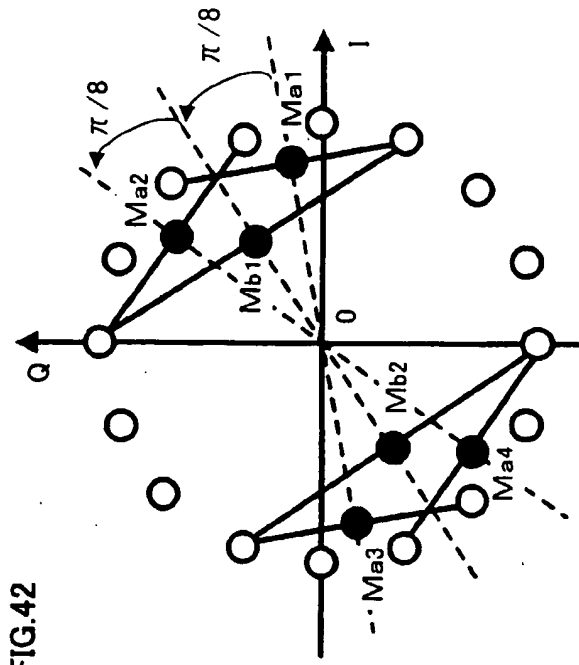


FIG.42

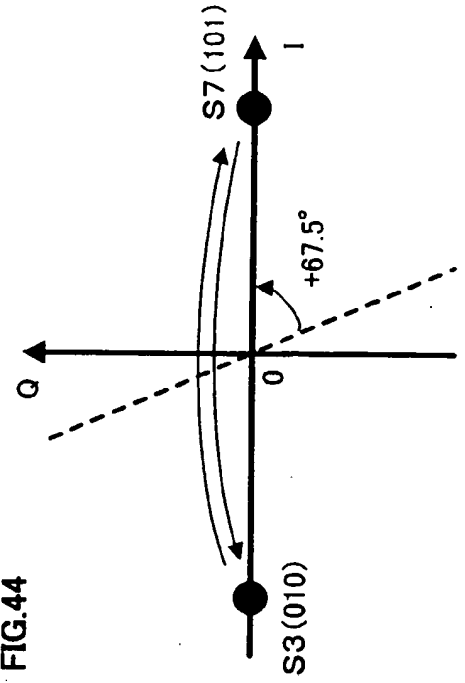


FIG.44

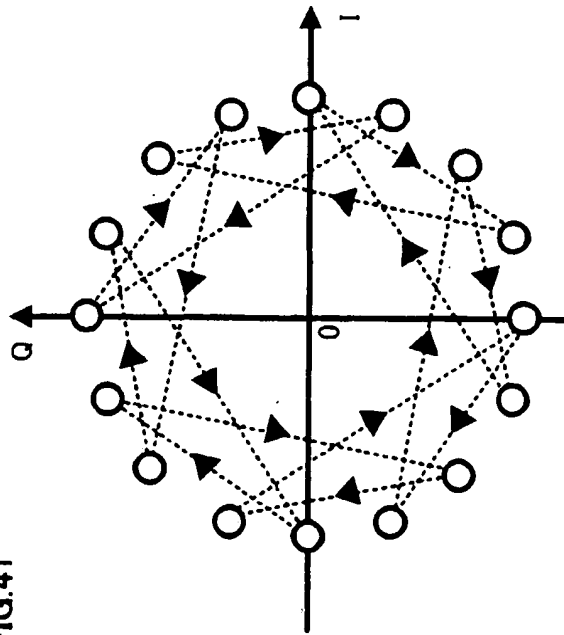


FIG.41

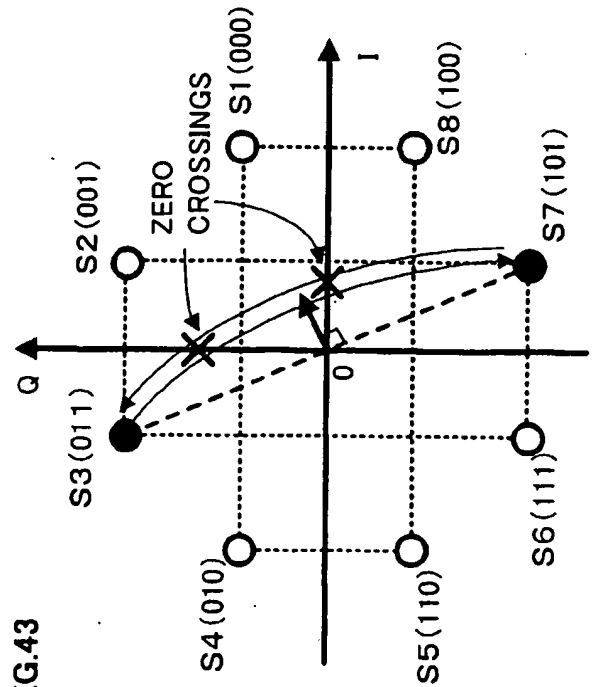


FIG.43

FIG.46

BIT $X_n$	PHASE TRANSITION
0	0
1	$\pi$

FIG.45

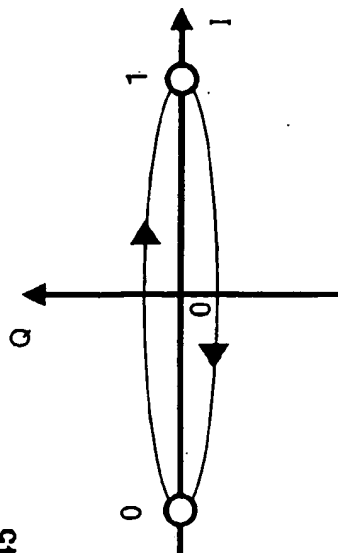


FIG.48

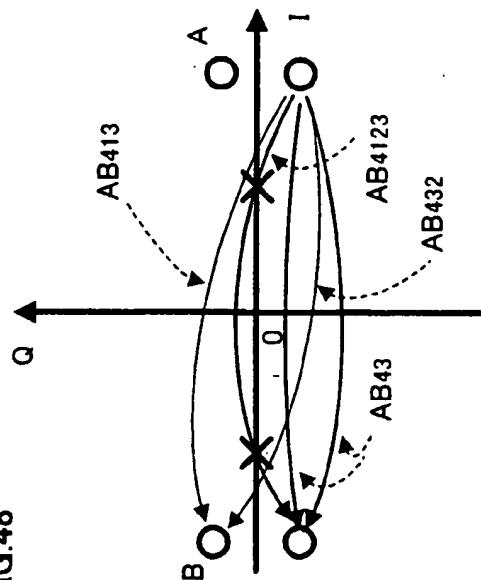


FIG.47

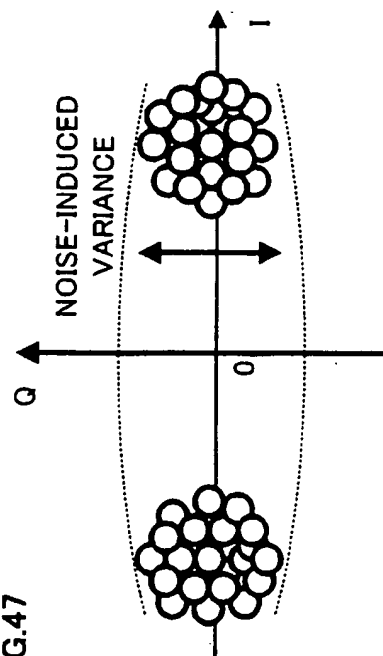


FIG.49

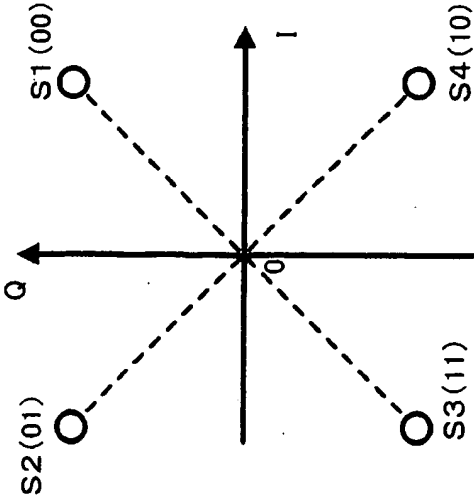


FIG.50

	BIT $X_n$ $X_{n+1}$	PHASE TRANSITION
S1	0 0	$\pi/4$
S2	0 1	$3\pi/4$
S3	1 1	$-3\pi/4$
S4	1 0	$-\pi/4$

FIG.51

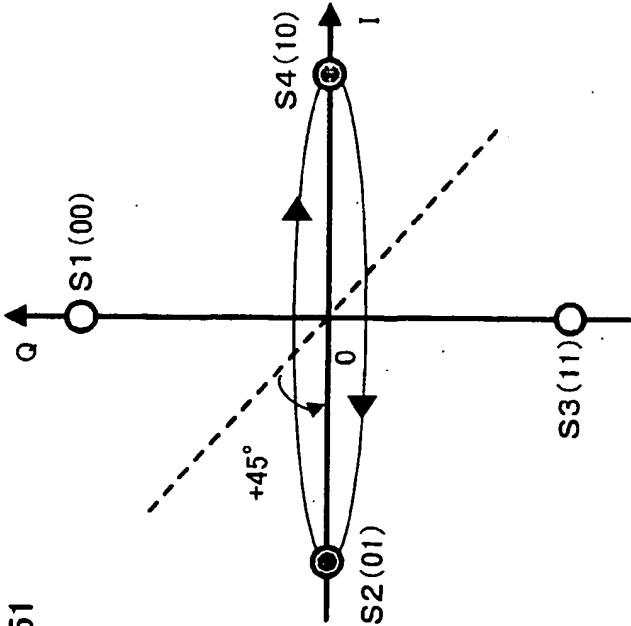


FIG.53

	BIT $X_n \ X_{n+1} \ X_{n+2}$	PHASE TRANSITION
S1	0 0 0	0
S2	0 0 1	$\pi/4$
S3	0 1 1	$2\pi/4$
S4	0 1 0	$3\pi/4$
S5	1 1 0	$\pi$
S6	1 1 1	$-3\pi/4$
S7	1 0 1	$-2\pi/4$
S8	1 0 0	$-\pi/4$

FIG.52

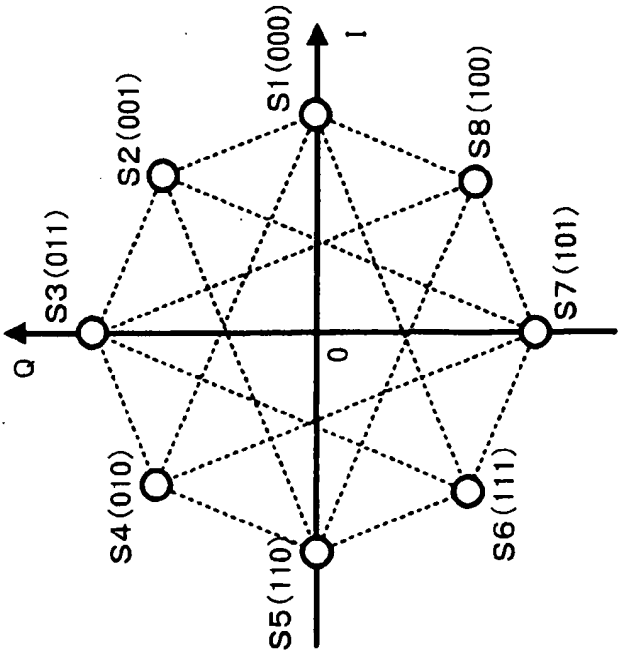


FIG.54

